

CLAIMS

1. A method for performing a detach of a terminal (MS) registered to a telecommunication network (NW) by associating an identification (TMSI) for said terminal (MS), deriving a signature (TMSI_SIG) for said identification (TMSI), and allocating a pair consisting of said identification (TMSI) and said signature (TMSI_SIG) to said terminal (MS),
said method comprising the steps of:
 sending a detach request (DET_REQ) including said identification (TMSI) and said identification signature (TMSI_SIG) from said registered terminal (MS) to said network (NW);
 receiving said detach request (DET_REQ) at the network (NW) side;
 comparing said received detach request (DET_REQ) with a record of registration data of said terminal (MS) kept at the network side; and
 detaching said terminal (MS) from said network (NW), if said received detach request (DET_REQ) coincides with said record of registration data.
2. A method according to claim 1, wherein,
 sending of said detach request message (DET_REQ) is initiated upon detection of a predetermined state of said terminal (MS).
3. A method according to claim 2, wherein
 said predetermined state is a power off state.
4. A method according to claim 2, wherein
 said predetermined state is a low battery state.
5. A method according to claim 2, wherein

Sub C1 00637684-072800 000220-48922800

said predetermined state resides in a removal of a SIM module from said terminal.

6. A method according to claim 1, wherein

5 said record of registration data contains said pair
consisting of said identification (TMSI) and said
identification signature (TMSI_SIG), and
 said comparison is effected for each of said data
items forming said pair.

7. A method according to claim 1, wherein

said identification (TMSI) is the temporary mobile subscriber identity.

15 8. A method according to claim 1, wherein

said identification is the international mobile subscriber identity IMSI.

9. A method for registration of a terminal (MS) to a
20 telecommunication network (NW),

said method comprising the steps of:

associating an identification (TMSI) for said terminal (MS),

deriving a signature (TMSI_SIG) for said
25 identification (TMSI), and

allocating a pair consisting of said identification (TMSI) and said signature (TMSI SIG) to said terminal (MS).

10. A method according to claim 9, further comprising the
30 step of

sending a registration request (REG_REQ) from said terminal (MS) to said network (NW); and wherein

said associating is effected in response to the receipt of said registration request.

35

11. A method according to claim 10, wherein
said registration request (REG_REQ) is an attach
request for initial registration of said terminal (MS) in
said network (NW).

5

12. A method according to claim 10, wherein
said registration request (REG_REQ) is a location
update request for updating a previous registration of said
terminal (MS) in said network (NW).

10

13. A method according to claim 10, wherein
said registration request (REG_REQ) is a cell update
request for updating a previous registration of said
terminal (MS) in said network (NW).

15

14. A method according to claim 10, wherein
said registration request (REG_REQ) is a URA update
request for updating a previous registration of said
terminal (MS) in said network (NW).

20

15. A method according to claim 9, wherein
said associating of said identification (TMSI) is
arbitrary.

25

16. A method according to claim 9, wherein
said allocating is effected in a secure mode.

17. A method according to claim 9, wherein
said identification (TMSI) is the temporary mobile
subscriber identity.

30

18. A method according to claim 9, wherein
said identification is the international mobile
subscriber identity IMSI.

35

Sub
09627684-072800

